

Los Alamos Computer Science Institute

Los Alamos Computer Science Institute
PO Box 1663, MS B287
Los Alamos, NM 87545
(505) 665- 2000

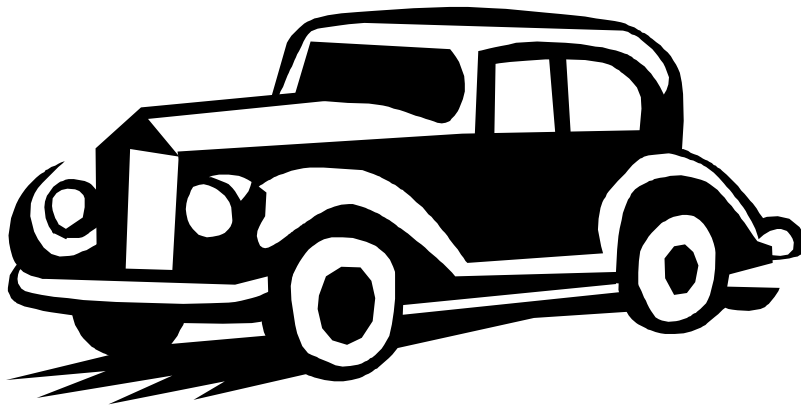
February 9, 2001

LACSI Briefing: LAUR-01-789



ASCI is a tri-laboratory and Defense Programs collaboration that will create the leading-edge computations modeling and simulation capabilities that are essential for maintaining the safety, reliability, and performance of the US nuclear stockpile and reducing the nuclear danger.

The Problem



- 1980
- Reliability
- Aging
- Loss of expertise
- Complexity
- Whole system modeling

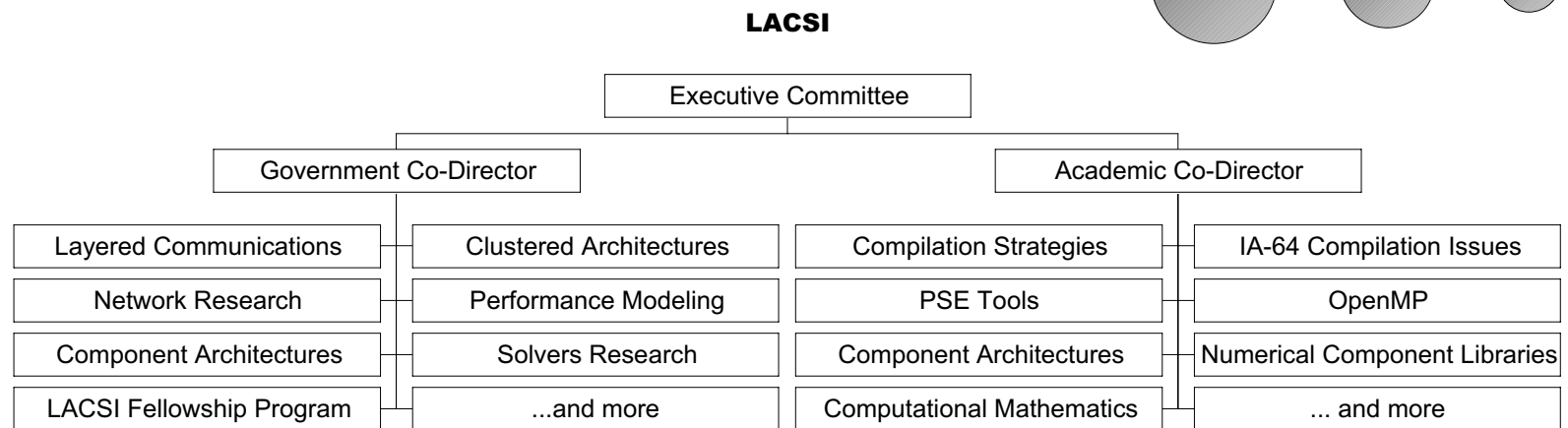
Extreme Simulation

- Parallel Algorithms
- Problem Solving Env.
- SQE
- Clusters
- Huge Data
- Visualization
- Reliability,
Accessibility,
Scalability
- Security
- **Targets 2-5 years out**

LACSI Mission

- Build computer science (CS) strength at Los Alamos National Laboratory
- International CS Center of Excellence
- Pursue long term CS relevant to ASCI
- Encourage HPC in academia

LACSI Structure



LACSI Participants

Los Alamos National Laboratory

Rice University

University of Houston

University of Illinois, Urbana-Champaign

University of New Mexico

University of Tennessee, Knoxville

Delivery

